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Reviewer: Anne Corrigan

Timestamp: Tue Jun 05 18:37:10 EDT 2007

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Application No: 10582345

Version No: 1.0

**Input Set:****Output Set:****Started:** 2007-06-05 17:19:01.572**Finished:** 2007-06-05 17:19:03.011**Elapsed:** 0 hr(s) 0 min(s) 1 sec(s) 439 ms**Total Warnings:** 49**Total Errors:** 0**No. of SeqIDs Defined:** 49**Actual SeqID Count:** 49

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**Input Set:**

**Output Set:**

**Started:** 2007-06-05 17:19:01.572  
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Error Description

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# SEQUENCE LISTING

<110> TAKARA BIO INC.

<120> A method for nucleic acid amplification

<130> 664878

<140> 10582345

<141> 2007-06-05

<150> JP 2003-412326

<151> 2003-12-10

<160> 49

<170> PatentIn version 3.1

<210> 1

<211> 242

<212> DNA

<213> Artificial Sequence

<220>

<223> A portion of SARS coronavirus genomic RNA reverse transcribed to DNA. "nucleotide 1 to 5 is HindIII restriction site- nucleotide 238 to 242 is BamHI restriction site."

<400> 1

aagcttttctc tatgatgggt ttcaaatga attaccaagt caatggttac cctaatatgt 60

ttatcacccg cgaagaagct attcgtcacg ttcgtgcgtg gattggcttt gatgtagagg 120

gctgtcatgc aactagagat gctgtgggta ctaacctacc tctccageta ggattttcta 180

caggtgttaa cttagtagct gtaccgactg gttatgttga cactgaaaat aacacaggat 240

cc 242

<210> 2

<211> 18

<212> DNA

<213> Artificial Sequence

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<223> Designed chimeric oligonucleotide primer designated as 205RN3(18) for synthesizing cDNA from mRNA, and to amplify a portion of SARS coronavirus genome. "nucleotides 16 to 18 are ribonucleotides- other nucleotides are deoxyribonucleotides."

<400> 2

agttgcatga cagccuc 18

<210> 3

<211> 30

<212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Designed oligonucleotide primer designated as A12-205R for synthesizing cDNA from mRNA.

<400> 3  
 aaacatatta ggagttgcat gacagccctc 30

<210> 4  
 <211> 18  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Designed oligonucleotide primer designated as 215R for synthesizing cDNA from mRNA.

<400> 4  
 cagcatctct agttgcat 18

<210> 5  
 <211> 30  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Designed oligonucleotide primer designated as A12-215R for synthesizing cDNA from mRNA, and to amplify a portion of SARS coronavirus genome.

<400> 5  
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<210> 6  
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 <212> DNA  
 <213> Artificial Sequence

<220>  
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<400> 6  
 aaacatatta ggagtacca cagcatctct 30

<210> 7  
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<220>  
<223>     Designed chimeric oligonucleotide primer designated as 134FN3(18) to amplify a portion of SARS coronavirus genome. "nucleotides 16 to 18 are ribonucleotides- other nucleotides are deoxyribonucleotides."

<400>   7  
atcacccgcg aagaagcu 18

<210>   8  
<211>   30  
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<213>   Artificial Sequence

<220>  
<223>     Designed oligonucleotide primer designated as A12(-10)-215R for synthesizing cDNA from mRNA, and to amplify a portion of SARS coronavirus genome.

<400>   8  
gggtaaccat tgcagcatct ctagttgcat 30

<210>   9  
<211>   30  
<212>   DNA  
<213>   Artificial Sequence

<220>  
<223>     Designed oligonucleotide primer designated as A12(-20)-215R for synthesizing cDNA from mRNA, and to amplify a portion of SARS coronavirus genome.

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<210>   10  
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<212>   DNA  
<213>   Artificial Sequence

<220>  
<223>     Designed oligonucleotide primer designated as A12(6)-215R for synthesizing cDNA from mRNA, and to amplify a portion of SARS coronavirus genome.

<400>   10  
ggtgataaac atcagcatct ctagttgcat 30

<210>   11  
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<212>   DNA  
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<220>  
<223>     Designed oligonucleotide primer designated as A12(12)-215R for synthesizing cDNA from mRNA, and to amplify a portion of SARS coronavirus genome.

<400>   11  
ttcgcgggtg atcagcatct ctagttgcat 30

<210>   12  
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<212>   DNA  
<213>   Artificial Sequence

<220>  
<223>     Designed chimeric oligonucleotide primer designated as B134FN3(16) to amplify a portion of SARS coronavirus genome. "nucleotides 14 to 16 are ribonucleotides- other nucleotides are deoxyribonucleotides." "5'-end is labeled with biotin."

<400>   12  
atcacccgcg aagaag 16

<210>   13  
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<212>   DNA  
<213>   Artificial Sequence

<220>  
<223>     Designed chimeric oligonucleotide primer designated as 205RN3(16) to amplify a portion of SARS coronavirus genome. "nucleotides 14 to 16 are ribonucleotides- other nucleotides are deoxyribonucleotides."

<400>   13  
agttgcatga cagccc 16

<210>   14  
<211>   24  
<212>   DNA  
<213>   Artificial Sequence

<220>  
<223>     Designed oligonucleotide primer designated as A6(-10)-215R for synthesizing cDNA from mRNA, and to amplify a portion of SARS coronavirus genome.

<400>   14  
gggtaacagc atctctagtt gcat 24

<210>   15  
<211>   27  
<212>   DNA  
<213>   Artificial Sequence

<220>  
<223>     Designed oligonucleotide primer designated as A9(-10)-215R for synthesizing cDNA from mRNA, and to amplify a portion of SARS coronavirus genome.

<400>   15  
gggtaaccac agcatctcta gttgcat 27

<210>   16  
<211>   20  
<212>   DNA  
<213>   Artificial Sequence

<220>  
<223>     Designed oligonucleotide probe designated as SARS-BNI-B for detecting an amplified a portion of SARS coronavirus genome. "5'-end is labeled with FITC."

<400>   16  
aagccaatcc acgcacgaac 20

<210>   17  
<211>   18  
<212>   DNA  
<213>   Artificial Sequence

<220>  
<223>     Designed chimeric oligonucleotide primer designated as 160FN3 to amplify a portion of SARS coronavirus genome. "nucleotides 16 to 18 are ribonucleotides- other nucleotides are deoxyribonucleotides."

<400>   17  
cgttcgtgcg tggatugg 18

<210>   18  
<211>   14  
<212>   DNA  
<213>   Artificial Sequence

<220>  
<223>     Designed chimeric oligonucleotide primer designated as 241RN3 to amplify a portion of SARS coronavirus genome. "nucleotides 12 to 14 are ribonucleotides- other nucleotides are deoxyribonucleotides."

<400>   18  
tagctggaga ggua 14

<210>   19  
<211>   21  
<212>   DNA



<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as (A12)241 RN3 to amplify a portion of SARS coronavirus genome. "nucleotides 18 to 21 are ribonucleotides- other nucleotides are deoxyribonucleotides."

<400> 19  
tgacgaatag ctggagaggu a 21

<210> 20  
<211> 16  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as 134FN3(16) to amplify a portion of SARS coronavirus genome. "nucleotides 14 to 16 are ribonucleotides- other nucleotides are deoxyribonucleotides."

<400> 20  
atcacccgcg aagaag 16

<210> 21  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as ICAN-ALDH2-F to amplify a portion of human aldehyde dehydrogenase 2 gene. "nucleotides 18 to 20 are ribonucleotides- other nucleotides are deoxyribonucleotides."

<400> 21  
agttgggcga gtacgggcug 20

<210> 22  
<211> 20  
<212> DNA  
<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as ICAN-ALDH2-R to amplify a portion of human aldehyde dehydrogenase 2 gene. "nucleotides 18 to 20 are ribonucleotides- other nucleotides are deoxyribonucleotides."

<400> 22  
cagaccctca agccccaaca 20

<210> 23  
 <211> 14  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Designed chimeric oligonucleotide probe designated as ALDH2 wG probe for detecting an amplified a portion of native human aldehyde dehydrogenase 2 gene. "nucleotides 11 is ribonucleotide- other nucleotides are deoxyribonucleotides." "5'-end is labeled with ROX, and 3'-end is labeled with Eclipse."

<400> 23  
 ggcatatcact gaag 14

<210> 24  
 <211> 14  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Designed chimeric oligonucleotide probe designated as ALDH2 mA probe for detecting an amplified a portion of mutant human aldehyde dehydrogenase 2 gene. "nucleotides 11 is ribonucleotide- other nucleotides are deoxyribonucleotides." "5'-end is labeled with FAM, and 3'-end is labeled with Eclipse."

<400> 24  
 ggcatatcact aaag 14

<210> 25  
 <211> 29  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Designed oligonucleotide primer designated as ALDH2-TH1 to amplify a portion of human aldehyde dehydrogenase 2 gene.

<400> 25  
 cccggccact ccgcagaccc tcaagcccc 29

<210> 26  
 <211> 28  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Designed oligonucleotide primer designated as ALDH2-TH2 to amplify a portion of human aldehyde dehydrogenase 2 gene.

<400> 26  
 cccggccact ccagccacca gcagaccc 28

<210> 27  
 <211> 28  
 <212> DNA  
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 <223> Designed oligonucleotide primer designated as ALDH2-TH3 to amplify a portion of human aldehyde dehydrogenase 2 gene.  
  
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 <212> DNA  
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 <223> Designed oligonucleotide PCR primer designated as ALDH2-F to amplify a portion of human aldehyde dehydrogenase 2 gene.  
  
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 <210> 29  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence  
  
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 <223> Designed oligonucleotide PCR primer designated as ALDH2-R to amplify a portion of human aldehyde dehydrogenase 2 gene.  
  
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 agcccccaac agacccaat c 21  
  
 <210> 30  
 <211> 16  
 <212> DNA  
 <213> Artificial Sequence  
  
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 <223> Designed oligonucleotide primer designated as ALDH2-TH4 to amplify a portion of human aldehyde dehydrogenase 2 gene.  
  
 <400> 30  
 agccaccagc agaccc 16  
  
 <210> 31  
 <211> 17  
 <212> DNA  
 <213> Artificial Sequence

<220>  
<223>     Designed chimeric oligonucleotide primer designated as F2 to amplify a portion of Legionella pneumophila mip gene. "nucleotides 15 to 17 are ribonucleotides- other nucleotides are deoxyribonucleotides."

<400>   31  
atggggccttg caatguc 17

<210>   32  
<211>   17  
<212>   DNA  
<213>   Artificial Sequence

<220>  
<223>     Designed chimeric oligonucleotide primer designated as R2 to amplify a portion of Legionella pneumophila mip gene. "nucleotides 15 to 17 are ribonucleotides- other nucleotides are deoxyribonucleotides."

<400>   32  
agtagctaataat gatgugg 17

<210>   33  
<211>   12  
<212>   DNA  
<213>   Artificial Sequence

<220>  
<223>     Designed chimeric oligonucleotide probe designated as Mip4g12 probe for detecting an amplified a portion of Legionella pneumophila mip gene. "nucleotides 4 is ribonucleotide- other nucleotides are deoxyribonucleotides." "5'-end is labeled with FAM, and 3'-end is labeled with Eclipse."

<400>   33  
aatggctgca ac 12

<210>   34  
<211>   17  
<212>   DNA  
<213>   Artificial Sequence

<220>  
<223>     Designed oligonucleotide primer designated as R2(-13) to amplify a portion of Legionella pneumophila mip gene.

<400>   34  
ccaatgctat aagacaa 17

<210>   35  
<211>   29

<212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Designed oligonucleotide primer designated as R2(-13)A12-1 to a  
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<400> 35  
 aacagctgca gtccaatgct ataagacaa 29

<210> 36  
 <211> 29  
 <212> DNA  
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<220>  
 <223> Designed oligonucleotide primer designated as R2(-13)A12-2 to a  
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<400> 36  
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<210> 37  
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<220>  
 <223> Designed oligonucleotide PCR primer designated as c-Ki-ras/12F  
 to amplify a portion of human c-Ki-ras2 gene.

<400> 37  
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<210> 38  
 <211> 23  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Designed oligonucleotide PCR primer designated as rasT1R to amp  
 lify a portion of human c-Ki-ras2 gene.

<400> 38  
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<210> 39  
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<220>  
 <223> Designed oligonucleotide PCR primer designated as rasT14F to am

plify a portion of human c-Ki-ras2 gene.

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gcgcggactg aatataaact tgtgg

25

<210> 40

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed oligonucleotide PCR primer designated as rasT4R to amplify a portion of human c-Ki-ras2 gene.

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29

<210> 41

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed chimeric oligonucleotide primer designated as c-Ki-ras/12FN3 to amplify a portion of human c-Ki-ras2 gene. "nucleotides 18 to 20 are ribonucleotide- other nucleotides are deoxyribonucleotides."

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<210> 42

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<213> Artificial Sequence

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<223> Designed chimeric oligonucleotide primer designated as c-Ki-ras/12RN3 to amplify a portion of human c-Ki-ras2 gene. "nucleotides 18 to 20 are ribonucleotide- other nucleotides are deoxyribonucleotides."

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20

<210> 43

<211> 20

<212> DNA

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<223> Designed oligonucleotide primer designated as PJDBF to amplify a portion of Neisseria gonorrhoeae cppB gene.

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<210> 44  
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<210> 46  
<211> 17  
<212> DNA  
<213> Artificial Sequence

<220>  
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bonucleotides."

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<210> 47  
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<212> DNA  
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<211> 27

<212> DNA

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